RASplus (Remote Administration System)

Digital Video Recorder Software

User Guide

Revisions

Issue	Date	Revisions	
1.00	12/06	New document.	
1.01	12/06	Minor changes.	

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About This Document

This document introduces the Remote Administration System Plus (RASplus) software designed for the digital video recorder (DVR) and describes the procedures for operating and maintaining the software.

Overview of Contents

This document contains the following chapters and appendixes:

- Chapter 1, Overview, describes the Remote Administration System and lists its features.
- Chapter 2, Installation, provides the installation procedures necessary for RASplus
- Chapter 3, Configuration, covers the configuration and settings possible with RASplus.
- Chapter 4, Operation, provides the operation procedures necessary for RASplus
- Appendix A, Reviewing Video Clips, covers the functions and features of the MiniBank Self Player program.
- Appendix B, DVR Name Service (DVRNS), explains how to set up a remote DVR using a DVRNS server.
- Appendix C, Map Editor, describes the map editor and its features.
- Appendix D, AVI Converter, covers the AVI converter used in RASplus.

Related Documents

For more information about topics that are relevant to the subject of this manual, see the documents listed below.

Document title	Part number
HRXD9, HRXD16 DVR User Guide	900.0856

Overview

This manual describes the installation and operation of RASplus (Remote Administration System Plus) software, which is designed to be used with remote digital video recorders (DVRs).

Features

RASplus is an integrated software program that controls system management, video monitoring, video recording and image playback of multiple remote DVRs. RASplus offers the following features:

- · Checks and reports status of remote DVRs
- · Notification of events detected at remote sites
- Remote monitoring of live camera images
- · Panic recording of monitored images
- Time-lapse and event search of recorded images
- Remote software upgrades and system programming
- View system and event log information of remote DVRs
- Remote monitoring of multiple remote sites using 3D maps
- Connect up to 16 remote sites at a time

Product Information

Package Components

- · RASplus User Guide (This Document)
- Multilingual RASplus Software and User Guide (RASplus CD-ROM)
- DVRNS Server Software and User Guide (RASplus CD-ROM)

System Requirements

Playing back digital video puts a high demand on your computer system. To use the RASplus video monitoring and playback functions, your personal computer (PC) must meet the minimum system requirements listed below:

- Operating System: Microsoft Windows XP or later
- CPU: Intel Pentium IV (Celeron) 2.4 GHz or faster
- RAM: 512 MB or higher
- VGA: AGP, Video RAM 8 MB or higher (1024x768, 24 bpp or higher)

Installation

Installing RASplus

Caution

If an older version of RASplus has already been installed on your computer, you should uninstall the older version before installing the new one.

Note

In the Start menu in Windows, go to your Control Panel. Double-click **Power Options** to open the Management Properties dialog box. Under the Power Schemes tab, set both Turn off monitor and Turn off hard disks to Never.

- 1. Insert the installation CD.
- Run the RASplus_Setup.exe file.
- When Figure 2-1 appears, click Next.

Welcome to the RASplus Setup
Wizard

This will install RASplus on your computer.

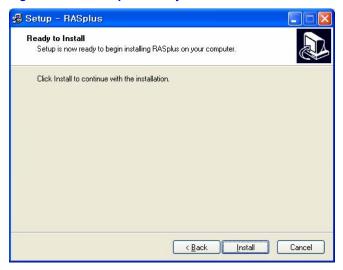
It is strongly recommended that you close all other applications you have running before continuing. This will help prevent any conflicts during the installation process.

Click Next to continue, or Cancel to exit Setup.

Figure 2-1 Welcome to RASplus Setup Wizard

4. Click Install.

Figure 2-2 RASplus Ready to Install



5. Set the language option by selecting either Select language when starting RASplus or Always start RASplus using the language below. If you select to Always start RASplus using the language below, select the desired startup language from the list of available languages and then click OK.



Figure 2-3 **RASplus Language Option**

Note To properly display the selected language, your PC's operating system should be set to support the selected language.

Note In order to change RASplus' language after selecting the Always start RASplus using the language below option, the RASplus software should be re-installed.

6. When Figure 2-4 appears after finishing the RASplus installation, select Install MSXML and click Finish. Installing the MSXML application is required for RASplus to initiate.

Figure 2-4 RASplus Exit Setup



7. Click Next.

Figure 2-5 Welcome to MSXML Setup Wizard



8. Select I accept the terms in the License Agreement, and click Next.

END-USER LICENSE AGREEMENT FOR MICROSOFT SOFTWARE

MICROSOFT XML CORE SERVICES (MSXML) 4.0

IMPORTANT-READ CAREFULLY: This Microsoft End-User License
Agreement ("BULA") is a legal agreement between you (either an individual or a single entity) and Microsoft Corporation for the Microsoft software identified above, which may include computer software, associated media, printed materials, and "online" or electronic documentation ("SOFTWARE"). By

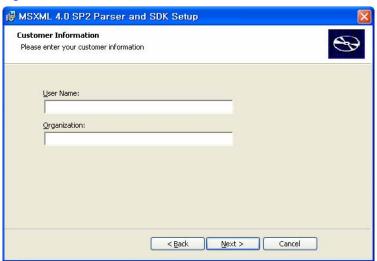
I accept the terms in the License Agreement

I do not accept the terms in the License Agreement

Figure 2-6 MSXML End-User License Agreement

9. Enter User Name and Organization, and click Next.

Figure 2-7 MSXML Customer Information



10. Select Install Now.

Figure 2-8 MSXML Choose Setup Type



11. Click **Finish** to complete the MSXML installation.

Figure 2-9 MSXML Exit Setup



3

Configuration

After installing the RASplus software, you will find the RASplus shortcut icon 😭 on the desktop. Run the RASplus program by double-clicking the icon. The RASplus program consists of the viewing screen, 12 docking panels, menu and toolbar.

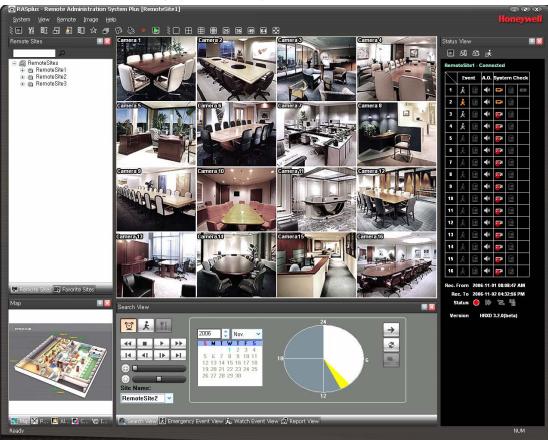


Figure 3-1 RASplus GUI

RASplus Viewing Screen

Gamera (13) amera (4)

Figure 3-2 **Viewing Screen**

The Viewing Screen displays images from selected cameras in live monitoring or playback mode. RASplus provides various multi-screen formats; single-screen, quad, 3x3, 4x4, full-screen, 5x5, 6x6, 7x7 and 8x8.

RASplus Panels

RASplus has many powerful tools that can be used to streamline your work. Most of the tools are located on 12 docking panels that can be placed on the screen where they are most convenient. You can keep your screen free of clutter by displaying only the panels you use most frequently.

Clicking the III icon in the upper right corner of a panel enables the auto-hide feature. Tabs for auto-hidden panels are displayed on the side of the screen. Scrolling over an auto-hidden panel tab will cause the panel to "fly" out. You can cause the panel to lock back into its original display position by clicking the 🔄 icon. Clicking the 🔀 icon hides the panel without a tab. Hidden panels can be displayed by selecting them from the drop-down menus.

Panels can be resized, moved and combined with other panels creating a workspace that fits your needs. To resize a panel, scroll the cursor over the edge of the panel until the cursor changes to ←→ or ↑. Then click the left mouse button and drag the panel border to enlarge or reduce its size.

To move a panel to a different position on the screen, scroll the cursor over the title bar of a panel that has not been auto-hidden until it changes to +. Once you click and drag, position arrows will display on the screen.

The four position arrows along the outer edges allow you to place the panel along the given edge independent of the other panels. When you drag the panel over a position arrow, a transparent blue box will display showing the new panel position. If you are satisfied with the position, release the left mouse button and the panel will move to its new position.

You can also move a panel so that it is associated with another panel. To do this, drag the panel over the panel you want it associated with, and the icon with four position arrows will center over that panel. Scrolling the cursor over the icon arrows will cause a transparent blue box to display where the panel will be located. If you are satisfied with the position, release the left mouse button and the panel moves to its new position.

Figure 3-3 Four Position Arrow Icon



It is possible to combine panels so that they take up less space on the screen. Combined panels have a row of tabs across the bottom. Clicking a tab brings that panel to the foreground.

To combine panels, move the cursor to the title bar of the panel you want to move. Click and drag the panel onto the panel you want to combine it with. If the panels can be combined, the four-position arrow icon will have a tab symbol in the center. Drag the cursor over the tab symbol , and a new tab appears on the panel. Release the mouse button and the panels will now be combined.

Figure 3-4 Four Position Arrow with Tab Icon



The layout possibilities are virtually unlimited. With a little experimentation you will be able to lay out the screen so that it best meets your requirements.

Remote Sites Panel

Figure 3-5 Remote Sites Panel



The **Remote Sites** panel displays a list of remote sites registered during RASplus System setup and a list of installed cameras at the remote sites. Entering the site name in the query box and clicking the picon allow you to find the remote site easily in the Remote Sites list. To connect to a remote site, select the site or camera you want to connect to from the list and then drag and drop it in the desired position on the screen or the Status View panel. The screen displays images from selected cameras, and the Status View panel displays the system status information of the connected remote site. Connecting to the Status View panel can also be done by selecting **Connect Status View** from the popup menu displayed by clicking the right mouse button after selecting the site from the list. This popup menu initiates the remote menu including **Remote Setup**, **Remote System Log**, and **Remote Event Log**. Refer to *Remote Menu*, page 30, for more details.

Favorite Sites Panel

Figure 3-6 Favorite Sites Panel



The **Favorite Sites** panel displays the list of Favorite sites registered during RASplus System setup. Selecting the Favorite site you want to connect to from the list and then dragging and dropping it in the desired position on the screen connects all remote sites registered in the Favorite site automatically.

Status View Panel

Figure 3-7 Status View Panel

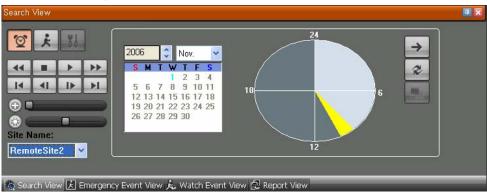


The **Status View** panel displays the event, alarm out, system check and recording status information of the connected remote site in real-time. To connect to the remote site, select the site or camera you want to connect to from the Remote Site or Map panel and then drag and drop it into the Status View panel.

Note Refer to Status View, page 47, for more details.

Search View Panel

Figure 3-8 Search View Panel



The Search View panel allows time-lapse or event searching of recorded data on the remote DVR.

Note

Refer to Playback and Search, page 38, for more details.

Map Panel

Figure 3-9 Map Panel



The **Map** panel allows efficient monitoring of the remote sites by displaying a three-dimensional map of the selectable site. Click the right mouse button on the map panel to select the map image file (.rmp) you want to monitor from the list. When the selected map is linked with sub-maps, clicking the linked image moves to the sub-map. To connect to the remote site, select the device you want to connect to from the Map panel and then drag and drop it in the desired position on the screen or the Status View

panel. Also, placing the mouse cursor on the device on the map displays the device status. When the device detects any event or the device is not working properly, the following status icons appear (maximum of 4).

\oslash	Unplugged
ග්	Switch off
0	Irregular
	Video Loss
Ķ	Motion
	Alarm In
4	Alarm Out

Note

The status of devices is displayed as Irregular based on to the settings in System Check and as Video Loss, Motion, Alarm In and/or Alarm Out according to the event detection settings on the remote DVR.

The Map panel pops up another screen when alarm-in, motion or video loss events are detected or when you click the device icon according to the Map Editor settings. Refer to Appendix C, Map Editor, page 59, for more details on the popup function. Change the popup screen location by clicking the left mouse button on the screen and dragging it to where you want it located. Clicking the right mouse button on the popup screen displays the following popup menu.

Figure 3-10 **Map Popup Options Menu**



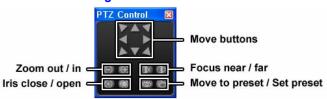
- x0.25 to x2: Sets the desired size of the Map popup screen.
- Full Screen: Enters the full-screen mode of the Map popup screen.
- User Set...: Sets the mode of the current popup screens displayed on the monitor. For example, the monitor displays the current popup screen with enough frames for 16 cameras when you select 4x4.

Figure 3-11 4x4 Screen Option



• PTZ Set...: Controls pan, tilt and zoom of the selected PTZ camera.

Figure 3-12 PTZ Controls



Transparency...: Adjusts the transparency of the popup screen (Windows 2000 or later).

Note

Refer to Appendix C, Map Editor for details on editing maps.

Color, PTZ and Alarm Out Control Panels

Figure 3-13 Color, PTZ and Alarm Out Control Panels







Three panels allow color control, PTZ control and alarm out control while live monitoring a remote site.

Note

Refer to *Live Monitoring* on page 35 for more details.

Image Processing Panel

Figure 3-14 Image Processing Panel



The Image Processing panel allows enhancing played back images.

Note Refer to *Playback and Search* on page 38 for more details.

Emergency Event View Panel

Figure 3-15 Emergency Event View Panel



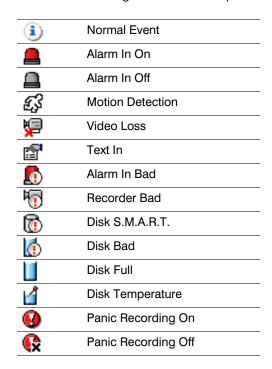
The **Emergency Event View** panel displays a list of events (preset for notification at the remote site) that were called from individual remote sites (LAN connection only).

Watch Event View Panel

Figure 3-16 Watch Event View Panel



The **Watch Event View** panel displays events detected at individual remote sites while RASplus is in the live monitoring mode. The description of event icons is as follows:



Report View Panel

Figure 3-17 Report View Panel



The **Report View** panel displays the system status information of remote sites. RASplus checks the remote site and reports system status. Report Setup must be configured during RASplus System setup for this feature to function. Refer to *System Menu* on page 20 for more details.

Note

Some report options may not be supported, depending on the specifications of the remote DVR.

RASplus Menus

Figure 3-18 RASplus Menu Bar



System Menu

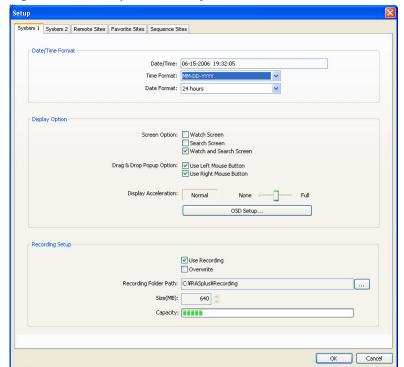
Figure 3-19 System Menu



Setup

The **Setup** screen allows setting up the system operation and remote site configuration.

Figure 3-20 Setup Screen — System 1



System 1: Set up the date/time format for RASplus, display options, and panic recording function.

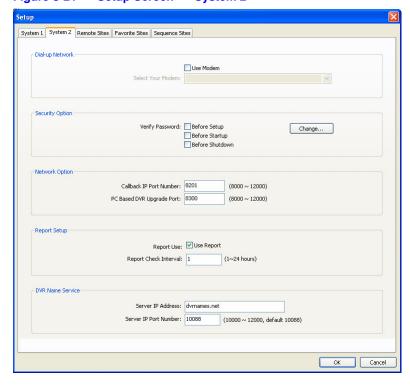
- Date/Time Format: Select the date/time format.
- Display Option: Set up the screen display, drag & drop popup option, display acceleration and OSD.
 - Screen Option: Select Watch Screen to use the screen for live monitoring only, Search Screen to use the screen for search only, or Watch and Search Screen to use the screen for both live monitoring and searching.
 - Drag & Drop Popup Option: Select which mouse button will be used when displaying popup menu screens from Use Left Mouse Button, Use Right Mouse Button or both (Watch and Search Screen mode only).
 - Display Acceleration: Select None (not using the display acceleration),
 Normal (using the DirectX display acceleration) or Full (using the DirectX Video Memory display acceleration).
 - OSD Setup...: Select options (Title, Time Info, Date Info, Text-In and Overlay Text-In Data) to display on the screen.

Note If the image cannot be displayed properly because of your PC's specifications, lower the display option level.

Recording Setup: Set up the Use (On or Off) of the panic recording function and
overwriting option of the recording folder (On or Off). When using the panic
recording function and overwriting option, RASplus continues recording when the
hard disk drive is full by overwriting the oldest video. Designate a recording folder
path and set the recording folder size from 640 MB to 2048 MB. Capacity shows
the remaining space of the recording folder.

Note The recording folder size cannot be changed once it has been set. Designate another recording folder path if you want to expand the recording space.

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Setup Screen — System 2 Figure 3-21

System 2: Set up the modem connection information for remote access, system password, network option, report function and DVRNS server.

- Dial-up Network: Select Use Modem if you want to use a modem for remote access.
- Security Option: Designate whether password confirmation is required Before Setup, Before Startup, or Before Shutdown of RASplus. Click Change to change the password.
- Network Option: Set up the IP port number (from 8000 to 12000) that is used for network connection when receiving a callback message from a remote site.

Note The IP port and upgrade port numbers you enter should match the values set during the network setup of the remote DVR.

- Report Setup: Set up the Use (On or Off) and check intervals (from 1 to 24 hours) of the report function. When using the report function, RASplus checks on the remote site based on the user-defined interval and reports system status.
- **DVR Name Service**: Set up the IP address and port number (from 10000 to 12000) of the DVRNS (DVR Name Service) server. The IP address and port number you enter should match the values set during the DVRNS setup of the remote DVR you want to connect to.

Note

The DVRNS server cannot be configured when using modem connections. Refer to *Appendix B, DVR Name Service (DVRNS)* for more details on DVR Name Service.

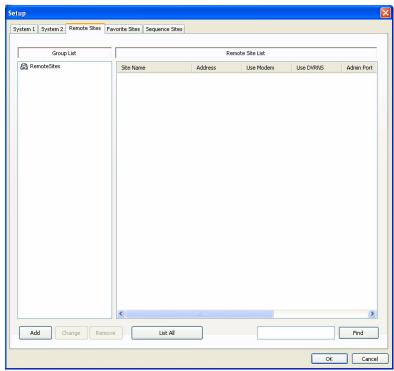


Figure 3-22 Screen Setup — Remote Sites

Remote Sites: Configures the connection list for remote access.

Add: Click Add and enter the information about the remote site you want to add.



Figure 3-23 Add Site Screen

Configuration

- Reference Group: The site should be assigned to a Reference Group for effective management of multiple remote sites. Click **Add** to create a new reference group.
- Remote Site Setup: Enter a site name and the IP address of the remote site (modem telephone number for dial-up connections), acquired from your network administrator. Click **Port...** to set up the IP port number of each program. The IP port number should match the value set during the network setup of the remote DVR. If the remote DVR version does not allow you to set the IP port numbers, use the following values: 8200 for Admin, 8016 for Watch, and 10019 for Search.

Note

When using DVRNS server, place a checkmark in the Use **DVRNS (DVR Name Service)** box, and enter the site name and DVR name of the remote site in the IP address box. The DVR name you enter should match the DVR name set during the DVRNS setup of the remote DVR.

Login Setup: Enter the user ID and password of the remote site to be accessed. If you have entered a user ID and a password, the site will be connected automatically without a dialog box requesting a password. Select No Password for remote systems that do not require a password (for example, guest login).

Note

Up to 32 characters may be used for the site names, telephone numbers and user IDs, and up to 10 characters may be used for passwords.

- Change: Select the group or site you want to change and click Change, or double click the group or the site to change. Then, edit the site information.
- Remove: Select the group or site you want to remove and click Remove.
- List All: Displays all registered remote sites.
- Find: Enter the group name or site name to search for and click Find to display the matching groups or sites in the list.

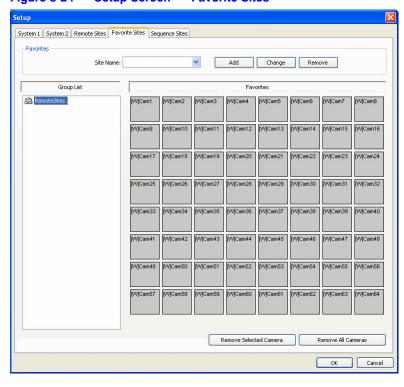


Figure 3-24 Setup Screen — Favorite Sites

Favorite Sites: The Favorite Site is a user-defined connection list that combines more than one remote site, so multiple sites can be monitored at the same time with a single connection. Add a new Favorite Site and define it by dragging and dropping sites and/or cameras to the Favorites map. Up to 64 cameras can be monitored at a time when each camera is assigned to its own position on the Favorites map.

- Site Name: Select a registered Favorite site from the drop-down list.
- Add: Adds a new Favorite site.
- Change: Select the Favorite site to change from the Site Name list and click Change. Then change the site name.
- Remove: Select the Favorite site to remove from the Site Name list and click Remove.
- Remove Selected Camera: Removes selected cameras from the Favorites map. Cameras can also be removed by clicking the right mouse button after selecting the camera.
- Remove All Cameras: Removes all cameras from the Favorites map.

Note

Cameras can be selected by clicking the left mouse button on the camera in the Favorites map. Selected cameras will be outlined in red. Clicking the left mouse button on the camera while holding the Ctrl key toggles camera selection On and Off. Multiple cameras can be selected by clicking the left mouse button while holding the Shift key.

Note

"[W]" (Watch Screen) and "[S]" (Search Screen) displayed to the left of the camera number indicates the display option of each camera. The display option can be selected when registering a Favorite site. Selecting the remote site from the Group List and dragging and dropping it to the Favorites map using the right mouse button displays the text menu screen. Select the desired displays option between **Watch Screen** and **Search Screen**. If you do not select the display option, Watch Screen display will be assigned to all cameras of the registered Favorite site by default.

Note

Clicking an on the toolbar will save the current screen layout of the Watch screen or Search screen directly to the Favorite site.

Note

The Favorite Site list does not work with modem connections.

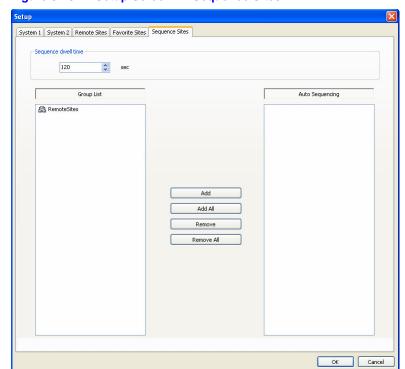


Figure 3-25 Setup Screen — Sequence Sites

Sequence Site: Configure the sequence site. RASplus connects to the registered sites sequentially allowing connection to more than one remote site.

- Sequence dwell time: Adjust sequence intervals (from 5 second to 1 hour) for each connection.
- Add: Select the site to add from the Group List and click Add.
- Add All: Adds all sites in the Group List to the Auto Sequencing list.
- Remove: Select the site to remove from the Auto Sequencing list and click Remove.
- Remove All: Removes all sites in the Auto Sequencing list.

Note The Auto Sequencing list is not valid with modem connections.

Batch Job Setup

Multiple remote sites can be upgraded or set up using the Batch Job Setup screen.

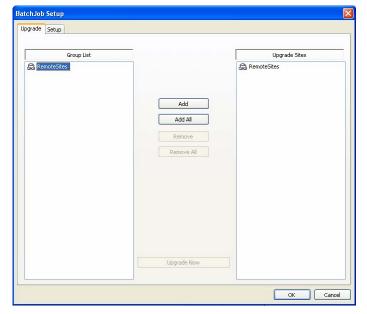


Figure 3-26 Batch Job Setup Screen — Upgrade

Upgrade: Sets up the remote upgrade job for remote sites. First, select the remote sites to upgrade from the Group List, and add them to the Upgrade Sites list by clicking Add. Then, click Upgrade Now to initiate the remote upgrade job for registered Upgrade Sites.

- Add: Select the site to add from the Group List and click Add.
- Add All: Adds all sites in the Group List to the Upgrade Sites list.
- **Remove**: Select the site to remove from the Upgrade Sites list and click **Remove**.

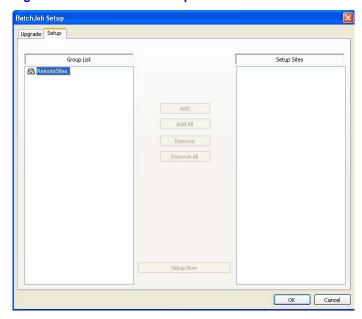
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- Remove All: Removes all sites in the Upgrade Sites list.
- Upgrade Now: Upgrades the software on the Upgrade Sites.

Figure 3-27 Enter File Name Dialog



Figure 3-28 Batch Job Setup Screen



Setup: Sets up the remote setup job for remote sites. First, select the remote sites to set up from the Group List, and add them to the Setup Sites list by clicking **Add**. Then, click **Setup Now** to initiate the remote setup job for registered Setup Sites.

- Add: Select the site to add from the Group List and click Add.
- Add All: Adds all sites in the Group List to the Setup Sites list.
- Remove: Select the site to remove from the Setup Sites list and click Remove.
- Remove All: Removes all the sites in the Setup Sites list.
- Setup Now: Performs the setup on the Setup Sites.

Disconnect

Disconnects all current connections. Disconnection can also be performed by clicking on the toolbar.

Log

Log displays the system log and batch job log information of RASplus, and the log information of emergency events called in from remote sites. It displays up to 5,000 log entries.

File View System Emergency BatchJob Event Date i)Local Setup changed 2006-03-21 15:09:33 2006-03-21 14:41:37 (Connected [RemoteSite3] - Watch 2006-03-21 14:41:28 System started (Connected [RemoteSite3] - Status 2006-03-21 14:25:57 Local Setup changed 2006-03-21 14:25:29 Disconnected [RemoteSite2] - Watch 2006-03-21 14:03:37 i Disconnected [RemoteSite2] - Watch 2006-03-21 14:02:48 Local Setup changed 2006-03-21 14:02:43 Local Setup changed 2006-03-21 14:02:21 Local Setup changed 2006-03-21 13:19:45 i) Disconnected [RemoteSite1] - Watch 2006-03-21 13:19:36 Local Setup changed 2006-03-21 13:19:29 i) Disconnected [RemoteSite2] - Search 2006-03-21 13:03:29 2006-03-21 12:58:32 Disconnected [RemoteSite1] - Watch Connected [RemoteSite2] - Search 2006-03-21 12:58:22 Disconnected [RemoteSite2] - Watch 2006-03-21 12:58:05 Disconnected [RemoteSite1] - Watch 2006-03-21 11:58:20 Connected [RemoteSite3] - Watch 2006-03-21 11:58:07 Local Setup changed 2006-03-21 11:57:51 2006-03-21 11:32:49 System started 2006-03-21 11:32:47 Local Setup changed System Log: 121

Figure 3-29 Log Setup Screen

File



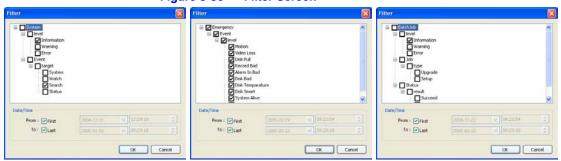
- Log File Open: Opens the saved log file.
- Save As...: Saves the log information as a text file.
- **Print**: Prints the log information.
- Exit: Closes the Log dialog box.

View



- **Show All Logs**: Displays all log entries.
- Show Filtering Log: Displays log entries within the parameters set by the filter options. Select the filter options and set the search starting date/time and ending date/time.

Figure 3-30 Filter Screen



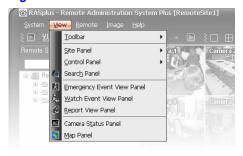
- New Log First: Displays the newest log first.
- Old Log First: Displays the oldest log first.
- Row Add or Remove: Adds or removes columns in the Log dialog box.

Exit

Disconnects all current connections and exits the RASplus program.

View Menu

Figure 3-31 View Menu



Displays or closes the selected toolbar and panels.

Remote Menu

Figure 3-32 Remote Menu



The Remote menu can also be activated by clicking the right mouse button after selecting the remote site on the Remote Sites panel.

Remote Setup

Remote Setup can be used to change the setup of a remote DVR. Select the remote site on the Remote Sites panel, initiate the Remote Setup menu, and the setup screen displays.

Note

Refer to the user manual for the remote DVR for more details on system setup.

Remote System Log/Remote Event Log

These selections display the system log and event log information of a remote DVR. Set the time range of interest and click Find. The log entries within the time range display on the list. 100 results can be displayed in a single page. Click the Move buttons to display additional results.

Log - RmoteSite3 System Log Event Log From: 🗹 First To: 🗹 Last Find Login (Admin:Admin) Login (Watch:Admin) Time Sync. Time Sync. 2006-01-12 04:28:40 PM 2006-01-12 04:28:19 PM 2006-01-12 04:19:37 PM 2006-01-12 03:49:35 PM 100 099 098 097 096 095 Time Sync. 2006-01-12 03:19:32 PM 2006-01-12 02:49:30 PM Time Sync 2006-01-12 02:43:30 PM 2006-01-12 02:43:08 PM 2006-01-12 02:43:04 PM 2006-01-12 02:42:59 PM 2006-01-12 02:08:10 PM 2006-01-12 02:08:10 PM 2006-01-12 02:06:10 PM Logout (Admin:Admin) Login (Admin:Admin) Logout (Admin:Admin) 094 093 092 091 090 089 087 086 085 084 083 Time Sync. Setup End (Local:Admin) Setup End (Local:Admin)
Setup Begin (Local:Admin)
Logout (Admin:Admin)
Time Sync:
Setup Begin (Remote:Admin)
Login (Admin:Admin)
Time Sync:
Time Sync: 2006-01-12 01:49:51 PM 2006-01-12 01:49:26 PM 2006-01-12 01:49:26 PM 2006-01-12 01:48:01 PM 2006-01-12 01:47:34 PM 2006-01-12 01:19:25 PM 2006-01-12 12:49:22 PM 2006-01-12 12:21:32 PM 2006-01-12 12:21:26 PM Time Sync Logout (Admin:Admin) Login (Admin:Admin) Logout (Admin:Admin) 2006-01-12 12:21:22 PM Print... Save... k < 1 2 3 4 5 > xl Close

Figure 3-33 Remote System/Event Log

- From: Adjust the search starting date and time. When First is selected, it will search from the first logged item.
- To: Adjust the search ending date and time. When Last is selected, it will search to the last log.
- **Find**: Displays remote log entries within the selected period.
- **Print...**: Prints the log information.
- **Save...**: Saves the log information as a text file.
- **Move Buttons**: Moves to the first page (), previous page (), next page () or last page (). You can go directly to a log page by clicking the page number button.
- Close: Closes the Log dialog box.

Image Menu

Figure 3-34 **Image Menu**



Note

The Image menu can also be accessed using the Image Processing panel controls and the toolbar controls.

- Image Processing: Allows the user to enhance images that are played back.
- Save: Saves the current image as a bitmap or JPEG file.
- **Print**: Prints the current image.

Note Refer to *Live Monitoring* on page 35, and *Playback and Search* on page 38, for more details.

Help Menu

The **Help** menu displays RASplus version information.

Toolbar

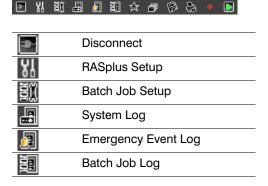
The Toolbar allows convenient access to desired functions.

Figure 3-35 RASplus Toolbars



The controls on the toolbar perform functions as described below:

Figure 3-36 RASplus Controls Toolbar



Configuration

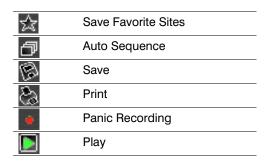


Figure 3-37 **Screen Format Toolbar**



Select the desired screen format using the layout toolbar.

Operation

Live Monitoring

RASplus provides remote monitoring functions for viewing video images in real time from either a single site or multiple sites. In addition, when events are detected at a remote site while in the live monitoring mode, RASplus displays the event information on the Watch Event View panel. In order to perform live monitoring, the display option must be set to Watch Screen or Watch and Search Screen during System setup.

To connect a remote site on the Watch screen, select the site or camera you want to connect to in the Remote Site or Favorite Sites panel and then drag and drop it in the desired position on the screen. Click 🛐 on the toolbar or select Disconnect from the System drop-down menu to disconnect the current connection.

Note

Some DVR models will only transmit images to a remote site while recording video.

Note

When selecting the displays option of Watch and Search **Screen** during System setup, the remote site can also be set to connect using the right or left mouse buttons (this is user-defined and must be set during System setup). Select Watch Screen to connect to the selected site on the Watch screen when the following text menu screen appears.

Figure 4-1

Watch Search Screen Selection



Screen Format

Figure 4-2 Screen Format Toolbar



RASplus provides multiple screen layout options. The formats available are single-screen, quad, 3x3, 4x4, 5x5, 6x6, 7x7, 8x8 and full-screen. When in one of the multi-view formats, clicking the current screen format button again goes to the next page. In other words, when viewing Cameras 1 to 4 in the quad format, clicking the quad icon will display Cameras 5 to 8.

To view a specific image in the single-screen mode, move the cursor to that image and double-click the left mouse button. To return to the previous screen mode from the single-screen mode, double-click the left mouse button in the monitoring window.

Camera Title

The user can change the camera name displayed on the screen. Select a camera on the screen and click the right mouse button. The following **Camera Title** box appears:

Figure 4-3 Camera Title Dialog Box



Enter the camera name and click **OK**. Leaving the Camera Title blank causes the camera name set up on the remote site to display.

Note

Changing the camera title is available in the both Watch and Search screens, and it does not affect the camera name set up on the remote site.

Sequence Monitoring

Clicking on the toolbar connects to the registered sites sequentially, allowing connection to more than one remote site, and displays images from selected cameras. For sequence monitoring to function, the sequence sites should be registered during System setup. Refer to System Menu on page 20 for details on configuring the sequence site.

While in the sequence monitoring mode, you cannot manually connect to sites by dragging and dropping with the mouse.

Additional Functions

Color Control

Adjust the brightness, contrast, saturation and hue for each camera by clicking the target icons on the Color Control panel. Clicking a cancels the image processing operation and reloads the original image. Only the administrator can adjust the image from a remote site.

Note

It is important that cameras are properly adjusted. These adjustments cannot make up for improperly adjusted cameras when the images are recorded.

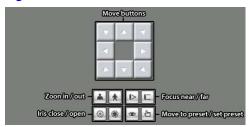
Figure 4-4 Color Controls



PTZ Control

Select a PTZ camera at the remote site, and control pan, tilt and zoom. Only the administrator can control a PTZ dome from a remote site.

Figure 4-5 PTZ Controls



Alarm Out Control

Control alarm out devices on the remote DVRs by clicking the **ON** or **OFF** buttons. Only the administrator can control an alarm out from a remote site.

Figure 4-6 Alarm Out Controls



Note

Not all DVRs support remote control of color, PTZ and alarm out. Refer to your DVR's documentation.

Save

Clicking on the toolbar saves the image currently displayed on the screen as a bitmap or JPEG file. By placing a checkmark in the box beside **Include Image Info**, text information about the site will be included when saving the image.

Print

Clicking a on the toolbar prints the image currently displayed on the screen on a printer connected to your computer. By placing a checkmark in the box beside **Include Image Info**, text information about the site will be included when printing the image.

Playback and Search

RASplus allows you to play back and search recorded images on remote DVRs. It also provides additional functions including zoom, various image enhancements, image saving and image printing. To use remote playback and search functions, the display option must be set to **Search Screen** or **Watch and Search Screen** during System setup.

To connect a remote site on the Search screen, select the site or camera you want to connect to in the Remote Site or Favorite Sites panel and then drag and drop it in the desired position on the screen. Click on the toolbar or select Disconnect from the System drop-down menu to disconnect the current connection.

Connecting to a Favorite site will be available if the **Search Screen** display option was set up to connect to selected Favorite sites. Refer to *System Menu* on page 20 for more details on Favorite Site setup.

Note

When selecting the display option of **Watch and Search Screen** during System setup, the remote site can be also be set to connect using the right or left mouse buttons (this is user-defined and must be set during System setup). Select **Search Screen** to connect to the selected site on the Search screen when the following text menu screen appears.

Figure 4-7 Watch Search Screen Selection



It is possible to display cameras in both the Watch Screen mode (live view) and Search Screen mode at the same time. For example, you can connect to a remote DVR site with nine cameras. Drag and drop the site into the first frame on the viewing screen and select **Watch Screen**. Live video will display in the first nine frames on the screen. Then, drag and drop the site into the 10th frame on the viewing screen and select **Search Screen**. You will be able to view any video recorded on the remote DVR in frames 10 through 18.

Search View Panel

Figure 4-8 Search View Panel



The Search View panel consists of playback and search controls, time-lapse search table, and event search table.

The playback buttons on the Search View panel perform the following functions as described below:

44	Fast Backward Play
	Stop
•	Play
>>	Fast Forward Play
I∢	Go to the First Image
∢L	Go to the Previous Image
1	Go to the Next Image
▶I	Go to the Last Image

Note

The speed of fast forward depends on network bandwidth and the number of images per second recorded.

You can enlarge a specific part of the image up to five times using the control slider. The user can electronically pan and tilt within the enlarged image by dragging the image using the mouse. Click the left mouse button on the enlarged image and drag to move its position. You can change the brightness of the current image using the control slider.

Note

Zoom in/out and brightness control work only while in the pause mode.

Search Mode

RASplus supports two search modes: time-lapse mode and event mode. The time-lapse search mode searches for recorded data by time and then plays back images found within the time parameters. The event search mode searches for event log entries using specific conditions and plays back the images associated with those event entries. These two modes have different panel configurations and search methods.

Note

Using two search modes at the same time will NOT be available.

When multiple remote sites are connected to the Search screen, you can select the remote site you want to search for by clicking any camera from the remote site on the screen or by selecting the remote site name from the Host ID list at the bottom left corner of the Search View panel.

Time-Lapse Search

2006 Nov. V
SMTWTFS
1 2 3 4
5 6 7 8 9 10 11
12 13 14 15 16 17 18
19 20 21 22 23 24 25
26 27 28 29 30

Figure 4-9 Time-Lapse Search Screen

Click on the Search View panel to enter the time-lapse search mode. Selecting a date from the calendar initiates the time-lapse search. The dates for which recorded images are available are enabled. When first entering the time-lapse search, the latest date with recorded images will be selected (highlighted) in the calendar. Click (Reload) to reload the date information. Recorded information available from the selected date will be displayed on the timetable chart. The recorded data is displayed by time (in one-hour segments). A green-highlighted segment indicates the selected time that will be played back. Blue-highlighted segments indicate there is no recorded data during that time, and pink-highlighted segments indicate there is recorded data during that time. Select a specific hour by clicking the mouse on the desired hour segment. Video images will be played back starting with the first image captured within the one-hour segment.

To view an image at a specific time, click (Go To).



Figure 4-10 Go To Time Screen

If the remote DVR's time and date have been reset to a time that is earlier than some recorded video, it is possible for the DVR to have more than one video segment in the same time range. Click (Segment) and select the video segment you want to search. The active segment will be highlighted with pink, and the inactive segment will be highlighted with gray on the timetable chart.

Figure 4-11 Select Segment Screen

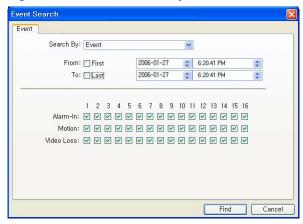


Event Search

Click on the Search View panel to enter the event search mode. First, click and set up the search condition in the following **Event Search** dialog box. When loading the event search for the first time, this **Event Search** dialog box appears automatically. Search modes by Event and Camera are provided.

Search By Event: Searches for results of the target event(s) by selecting the target event(s) as the search condition.

Figure 4-12 Event Search by Event Screen



Search By Camera: Searches for event results of target camera(s) associated with optional event(s), and also searches for more specific results by selecting the event type(s).

Event Search Event Search By: Camera From: First 2006-01-27 \$ 6:20:41 PM 2006-01-27 \$ 6:20:41 PM To: Last **\$** Camera Event **V** 1 **₩**2 ₩3 **₩** 4 ✓ Alarm-In ☑ Motion ₩5 **∨** 6 V 7 ₩8 ☑ Video Loss **¥** 9 ✓ 10 **₩** 11 √ 12 **☑** 13 **1**4 ✓ 15 **☑** 16

Figure 4-13 Event Search by Camera Screen

When **First** is selected for the search starting time, the search will be from the first recorded data. When **Last** is selected for the search ending time, the search will be to the last recorded data.

Find

Note

The type of search methods in the **Event Search** dialog box can vary depending on the specifications of the remote DVR.

Set up the search criteria for the event search in the **Event Search** dialog box. Select the search method first, and then after setting the search period and the other conditions click **Find**. The results will be displayed in the event list. A total of 100 results can be displayed at a time. Click (Query Next) to display the next results. If you select an event in the list, the recorded data associated with that event will be displayed on the screen. The images may be played back using the playback buttons.

Additional Functions

Searching Data Source

Click to set up the data source to be searched.

Figure 4-14 Search Target Screen



- Search on Local: Searches recorded data on primary storage installed in the remote DVR.
- Search on Archive: Searches archived data on backup storage installed in the remote DVR.

Screen Format

Figure 4-15 Screen Format Toolbar



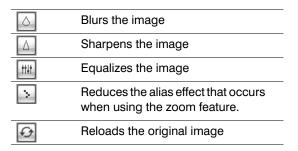
RASplus provides multiple screen layout for playback. The available formats are single-screen, quad, 3x3, 4x4, 5x5, 6x6, 7x7, 8x8 and full-screen.

Image Processing

Figure 4-16 Image Processing Panel



The **Image Processing** panel allows enhancing played back images using processing controls.



Save

Clicking on the toolbar saves recorded video.

Figure 4-17 **Save Type Screen**



Save As Video...: Saves any video clip of recorded data in an AVI (Audio Video Interleaved) file format. Set up the save parameters in the following dialog box Figure 4-18). Click **Start** and then set the file name and the video compression codec.

Note

When saving clips larger than 1GB, clips will be saved in the unit of 1GB. For example, 3 individual files of each 1GB will be created when saving clips of 3GB.

Figure 4-18 **Save As Video Screen**



Note

The Save As Video dialog box will differ depending on the specifications of the remote DVR connected to RASplus.

- Save As Image...: Saves the current image in a bitmap or JPEG file format.
- Save As MiniBank...: Saves any video clip of recorded data as an executable file. Select the camera number for which you want to save video in the **Camera** box, and set the time range you want to save in the Save Range. Placing a checkmark in the Audio box saves audio with video. Click Start, and select Save in. Enter a File name and then select Save as type (.exe) for the video you are saving. Then click Save.

Figure 4-19 Save As MiniBank Screen



The backup file size must be less than 2 GB because of Microsoft limitations.

Print

Clicking a on the toolbar prints the image currently displayed on the screen on a printer connected to your computer. By placing a checkmark in the box beside **Include Image Info**, text information about the site will be included when printing the image.

Panic Recording

Clicking on the toolbar starts panic recording of the first 16 channels currently displayed on the Watch screen. Clicking the button again stops panic recording. Clicking on the toolbar initiates the Clip Player program and plays video saved in the recording folder designated during the System setup. If you want to play back video saved in another recording folder, run the Record Player program. Move to the Start menu in Windows. Then, select **RecordPlayer** from the RASplus options and select the recording folder path you want. Refer to *Appendix A, Reviewing Video Clips* for more details on the Clip Player program.

Note

Panic recording will be available only if you select **Use Recording** and it is set up in the recording options during the System setup.

The date and time displayed on the Clip Player indicates when the recording was made on RASplus.

Status View

RASplus provides a display of event, alarm out, system check and recording status information from the connected remote site in real-time. To connect the remote site, select the site or camera you want to connect to from the Remote Site or Emergency Event View panel and then drag and drop it in the Status View panel. Or, you can select **Connect Status** from the popup menu displayed by clicking the right mouse button after selecting the site from the Remote Site list.



Figure 4-20 Status View Panel

Function Buttons



Disconnect: Disconnects the current connection on the Status View panel.

If you want to connect to another site, disconnect from the currently connected system on the Status View panel first by clicking .

Remote Setup: Allows changing the setup of the remote DVR connected to the Status View panel.

Note

Refer to the manual for each applicable remote DVR for more details on system setup.

Remote System Log: Displays the system log information of the remote DVR connected to the Status View panel.

Remote Event Log: Displays the event log information of the remote DVR connected to the Status View panel.

Note

Refer to Remote Menu, page 30, for more details on the Remote System Log and Remote Event Log.

Note

When the remote site is not connected to the Status View panel, Remote Setup, Remote System Log and Remote Event Log menus can be accessed by clicking the right mouse button after selecting the remote site on the Remote Sites panel.

Status Display Window

The Status Display Window displays the event, alarm out, system check and recording status information of the remote system connected to the Status View panel in real-time.

- Event: Displays events detected by the internal motion detector or by an external sensor. The status display of event detection will continue during the preset dwell time of the event-driven recording.
 - **Event Detection**
 - No Event Detection
 - Event Off



(Motion Detection, Sensor)



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Alarm Out: Displays status of the alarm-out signals.

Alarm Out No Alarm Out Alarm Out Off

System Check: Displays the function status of the camera, alarm, and recording
of the remote DVR.

→

(Camera, Alarm, Recording)

Note Display of some System icons may not be supported and depends on the specifications of the remote DVR.

- Record From/To: Displays the record period.
- Status: Displays the recording, playback, archiving, clip-copy status.
 - On
 Off
 (Recording, Playback, Archive, Clip-Copy)

Note Display of some Status icons may not be supported and depends on the specifications of the remote DVR.

• Version: Displays the system version information.

Operation



Reviewing Video Clips

You do not need to install any special software on your personal computer to review video saved as MiniBank files or recorded using RASplus. The backup file contains a Player program. Double-clicking the target file starts the Player program.

Note

The Player GUI will differ depending on the model of the remote DVR that is connected to RASplus when reviewing the video saved as a MiniBank file.

MiniBank Player

Note

It is suggested that the computer used for the MiniBank Player program has at least a 800MHz Pentium III. If your CPU is slower than this, video clips recorded at maximum speed with very high image quality will be played back slowly.



Figure A-1 MiniBank Self Player User Interface

The Monitoring Screen displays the backed up images. Clicking the right mouse button on the image while holding the Shift key switches the screen size. Click and hold the left mouse button and drag the image to move its position.

Clicking Quit exits the Player program.

Click Save to save the current image in a bitmap file format on the local hard disk drive or floppy disk.

Click **Print** to print the current image on the printer connected to your computer.

The **Backup File Information** window displays information regarding the backup file. Location displays the site description of the DVR where the backup was made. Record displays the time span of the video backup file. Encryption displays whether the recorded or backup file has been tampered with. Normal means the file has not been tampered with, Wrong means the system has detected tampering, and no mark means the user cancelled the encryption check.

The Current Image Information window displays information about the current image. Camera Title displays the camera name of the current image, and Time displays the date and time the image was recorded.

The Image Search Slide Bar displays the current playback position. The user can move to another image by clicking the mouse and dragging along the slide bar.

The **Playback Function Buttons** include fast backward, backward, play, pause, fast forward, go to the first image, go to the previous image, go to the next image, and go to the last image buttons.

The **Brightness Control Slide Bar** adjusts the brightness of the backup images by clicking the mouse and dragging along the slider bar. Minute brightness change can be made using the arrow buttons located at each end of the bar.

The **Brightness Revert Button** reloads to the original image.

Click **Zoom Out** / **In** to zoom out or zoom in the current image. Scrolling the mouse wheel up or down on the image also zooms in or out.

Clicking OSD (On-Screen Display) switches the OSD option. The OSD information includes camera location and date/time.

Clicking Mute mutes the recorded audio.

Double-clicking the logo at the top left corner while holding the Shift key switches video formats when you are experiencing improper image display.

Clip Player

Note

It is suggested that the computer used for the Clip Player program has at least a 800MHz Pentium III. If your CPU is slower than this, video clips recorded at maximum speed with very high image quality will be played back slowly. Also DirectX 8.0 or higher is required to install, and the VGA card with 16 MB or higher video RAM is recommended for proper operation.



Figure A-2 **Clip Player User Interface**

The Clip Player screen displays the clip images.

Note

Proper image display depends on the display settings of your PC. If you are experiencing display problems, click the right mouse button on the background screen and select Properties > Settings then set the Color quality to 32 bit. Then select Advanced > Troubleshoot, and then set the Hardware **Acceleration** to **Full**. Please make sure that DirectX version 8.0 or higher has been installed if the display problem continues. To check the version of DirectX, click Start > RUN and type dxdiag then hit the Enter key which will display the DirectX Diagnostic Tool dialog box. Then move to the Display tab and make sure DirectDraw Acceleration is set to Enabled. Test DirectDraw by selecting the DirectDraw Test button. After changing the settings, update the driver version of the VGA card. If you still have display problems after changing all display settings as described above, try replacing the video card. Video cards with an ATI chipset are recommended.

Clicking exits the Player program.

Click to go to the beginning of the video clip.

Reviewing Video Clips

Click to play the video clip in fast reverse.

Click to go back one frame of the video clip.

Click to play the video clip.

Click to go forward one frame of the video clip.

Click to play the video clip in fast forward.

Click to go to the end of the video clip.

Click to show the previous page.

Click to cycle through the screen layouts. It cycles through 2x2, 3x3 and 4x4.

Click to show the next page.

Click the control select from Save, Print, Info, Image Processing and Video Format. Selecting Save saves the current image in a bitmap file format on the local hard disk drive or floppy disk. Selecting Print lets you print the current image on the printer connected to your computer. Selecting Info displays Channel, Title, Time, Flag, Size and Resolution information about the image. Selecting Image Processing allows you to control brightness, blur and sharpness of playback images. Selecting Video Format allows you to find appropriate display settings for the type of graphics card installed in your PC. Use the Video Format option when you are experiencing improper image display.

Note Image Processing works only in the single-screen layout and pause mode.

Note If you are not sure about the appropriate **Video Format** option, try each option until the image displays properly.

Click the a icon to select from **Normal** and **Double** screen views. You can move the enlarged image by clicking the left mouse button and dragging.

Click the licon to display the image full screen.

Encryption icons display in the bottom-right corner. indicates the clip file has not been tampered with, and indicates the system has detected tampering.

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If the VGA card or monitor does not support 640x480 video resolution, Full Screen might not display properly. If this happens, press the ESC key on your PC keyboard to return to the normal screen mode.

Click the slider bar and move it left or right to move through the video clip.

Placing the mouse cursor on an image and clicking will cause that image to display full frame.

B

DVR Name Service (DVRNS)

Using Static IP addresses in LAN/WAN networks requires high management overhead and increases the cost burden to users. Therefore, it has become essential for DVRs to support Dynamic IP addresses in ADSL/VDSL networks using DHCP (Dynamic Host Configuration Protocol). This reduces cost burdens and increases cost-effectiveness for system users. Use the following steps to set up a system using DVRNS.

System Configuration

DVR

STEP 4

STEP 2

STEP 3

Figure B-1 DVRNS Server System Configuration

STEP 1 (DVR > DVRNS Server)

Register the unit name and IP address of the DVR during the DVRNS setup on the Remote DVR. This unit name and IP address will be registered on the DVRNS server directly.

Note

Refer to the HRXD and DVRNS Server guides for detailed information on the DVRNS and DVRNS Server setup. DVRNS Server software and user guide are on the RASplus CD.

Caution

The DVRNS registration is limited to only one DVRNS server. The DVR cannot be registered to multiple DVRNS servers.

STEP 2 (RASplus > DVRNS Server)

Request the IP address of the remote DVR using the registered unit name of the DVR you want to connect to.

STEP 3 (DVRNS Server > RASplus)

The DVRNS server notifies the RASplus of the requested IP address.

STEP 4 (RASplus > DVR)

Connect to the target DVR using the IP address returned from the DVRNS server.

Note

You should follow steps 2 to 4 whenever connecting to the remote site because the DVR name and IP address might change at any time.

C

Map Editor

The Map Editor program allows you to create 3-D maps of remote sites. With the drag-and-drop and link function, you can create and edit the map easily and efficiently. Run the program by selecting **Map Editor** from the RASplus options under the Start menu in Windows.

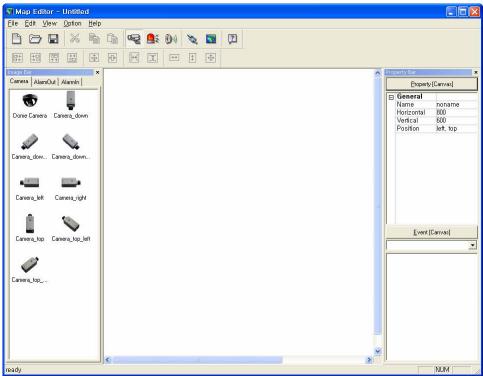


Figure C-1 Map Editor

Background Image Setting

First, prepare the image in a bitmap or JPEG file format. Click **(Background)** on the toolbar and select the background image of the map.

Go to the **Property [Canvas]** tab and set the background image information.

Figure C-2 Property [Canvas] Tab



- Name: Enter a name of the background image.
- Horizontal/Vertical: Adjust the background image size by clicking each field and changing the numbers.
- Position: Adjust the position of the background image on the screen. Select fit to image to fit the map screen size to the background image.

Option Menu

Click the **Option** menu to set up the DVR information, device status display and DVR name display.

Figure C-3 Option Menu



Site Information Setting: Select the **Site Information Setting**... in the **Option** menu to set the information about the remote DVR connections, and the following **Site Information** setup window appears.

Figure C-4 Site Information Window



Click **Add**, and *Figure C-4* appears.

Figure C-5 Site Item Window



Remote Site Setup: Enter the site name and IP address of the DVR connected to
the devices you want to include on the map. Click Port... and enter the network IP
port number (8000 to 12000) that matches the value set during the LAN setup of
the DVR. Check the box beside Use DVRNS (DVR Name Service) to use the DVR
name service.

Note

If you use DVR Name Service, you can enter the name registered on the DVRNS server instead of the IP address of the DVR, and you do not need to enter the network IP port number.

- Login Setup: Enter the user ID and password for the DVR associated with devices.
- DVRNS Server: Enter the IP address and port number (10000 to 12000) of the DVRNS server, which matches the values set during the DVRNS setup on the DVR.

Clicking **OK** saves the setting.

Status Color Setting: Select **Status Color Setting**... in the **Option** menu and *Figure C-6* appears. You can set the device to display a unique color reflecting its status on the Map panel.

Figure C-6 Status Color Window



Check the box beside Color Use and select each status box to use. Click each selected status box and select the desired color. When done, click OK.

Unplugged: Either connection to the remote DVR has failed, or **Device No.**

for the device is not supported by the DVR.

Switch off: Event detection function is not set up. Irregular: The device is not working properly.

Video Loss: Video loss is detected. Motion: Motion is detected. Alarm In: Alarm in is detected. Alarm Out: Alarm out is detected.

> Devices are displayed as Irregular based on the settings in **Note**

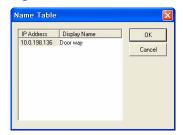
System Check and as Video Loss, Motion, Alarm In, and Alarm Out based on the event detection settings on the remote DVR.

Note The device displays mixed color when detecting more than two

statuses at the same time.

Name Table: Select Name Table... in the Option menu to display the name instead of the IP address of the DVR on the Map panel. Figure C-7 appears.

Name Table Window Figure C-7



Click the **Display Name** field of each IP address and enter the name of the DVR to display on the popup screen.

Device Setting

Selecting the , s, or w buttons on the toolbar displays the Camera, AlarmOut and Alarmin tabs under the Image Bar. Select the icons, and drag and drop them at the desired locations on the background image.

Go to the Property [Camera/AlarmOut/AlarmIn] tab and set the device information.

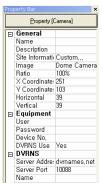


Figure C-8 Property [Camera/AlarmOut/AlarmIn] Tab

General

- Name: Enter a device name.
- **Description**: Enter description of the device.
- Site Information: Select a proper site for the device in the list, and the Equipment fields (User, Password, IP Address and Port) are filled automatically with the information set in Site Information Setting....
- Image: Select an image of a device.
- Ratio: Adjust the size of the device image.
- X Coordinates/Y Coordinates: Adjust the position of the device image by clicking each field and changing the numbers.
- Horizontal/Vertical: Adjust the size of the device image by clicking each field and changing the numbers.
- Popup camera: Under the Property [Alarmin] tab, you can associate a camera with the sensor. Enter the camera name to associate with the sensor.

Equipment

- IP Address/User/Password/Port: Each field is filled in automatically with the information (user ID, password, and port number) set in **Site Information** Setting..., or you can enter it manually.
- **Device No.**: Set the device number (1 ~ 32) for each device.
- DVRNS Use: Select Yes to use DVR Name Service, and the DVRNS field appears. Enter the IP address (or domain name) and the port number of the DVRNS server, and the name of the DVR registered on the DVRNS server.

You should not select numbers that are not supported for devices on the remote DVR when selecting Device No. Otherwise, the map cannot detect the device and it displays the device status as **Unplugged**. For example, Device No. should be from 1 to 16 when the device is connected to a 16-channel DVR.

Note

If you set the IP address and port number of the DVRNS server in **Site Information Setting...**, the DVRNS fields are filled with the information automatically.

Note

The **DVRNS** function is supported only with the devices associated with a DVR providing the DVRNS (DVR Name Service) function.

Go to the Event [Camera/AlarmOut/AlarmIn] tab and set the option for the devices.

Figure C-9 **Event [Camera] Tab**



Event [Camera]: Selecting an event from a drop-down list and checking the Watch View Popup box sets the Map panel to pop up another screen when an event occurs. Selecting Click from a drop-down list and checking the Watch View Popup box pops up another screen by clicking the mouse button on the camera icon on the Map panel regardless of event detection.

Figure C-10 **Event [AlarmOut] Tab**



Event [AlarmOut]: Checking the Switch on/off box controls the alarm-out remotely by clicking the alarm-out icon on the Map panel.

Figure C-11 **Event [Alarmin] Tab**



Event [AlarmIn]: Selecting **Alarm-in Event** from a drop-down list and checking the Watch View Popup box sets the Map panel to pop up another screen when an alarm-in event occurs. Selecting Click from a drop-down list and checking the Watch View Popup box pops up another screen by clicking the mouse button on the alarm-in icon on the Map panel regardless of event detection.

Link Setting

Click (Link) on the toolbar and place it on the screen linked with a sub-map. Then the Link box appears. Select the individual link boxes by using the Ctrl key on the keyboard, and then adjust the size and position of the link box using a mouse, a keyboard or the icons shown below.



 Interval adjustment: Equalizes the distance between three or more selected boxes.



Size adjustment: Equalizes the size of two or more selected boxes. Clicking the
arrow keys while holding the Shift key on the keyboard changes the size of the
selected boxes.



Position adjustment: Arranges two or more selected boxes towards one direction
or towards the center. Clicking the arrow keys while holding the Ctrl key on a
keyboard changes the position of selected boxes.



• Cut, Copy, Paste: Cuts, copies or pastes the link box.

Go to the **Property [Link]** tab and set the properties of the selected link box.

Property Eur x

Property [Link]

General
Name Link
Image ...
Link Document
Ratio 100%
X Coordinates 111
Y Coordinates 122

Figure C-12 Property [Link] Tab

• Name: Enter a name of the link box.

Horizontal Vertical Text Show

- Image: Double-click the field and select an image to insert in the link box.
- Link Document: Double-click the field and select a map to be linked with the link box.
- Ratio: Adjust the image size within the link box.
- X Coordinates/Y Coordinates: Adjust the position of the link box on the screen by clicking each field and changing the numbers.
- Horizontal/Vertical: Adjust the link box size by clicking each field and changing the numbers.
- Text Show: Select Yes to display the name of the link box on the selected image.

Clicking (Save) on the toolbar saves the map.

Map Editor

AVI Converter

The AVI Converter program converts saved executable MiniBank files to AVI (Audio Video Interleaved) files. Run the program by selecting AVIConverter from the RASplus options under the Start menu in Windows.

Click Source Open and select the file to convert. Then click Convert File.

Figure D-1 **AVI Converter Window**



Note

The source file list can include MiniBank Player files or Clip Player files depending on the model of remote DVR that is connected to RASplus.

When selecting a MiniBank Player file, the program checks whether the backup file has been tampered with. Click **Convert** when the checking process is complete.

Figure D-2 **Converting MiniBank to AVI Window**



When selecting a Clip Player file, you can select the camera(s) included in the backup file you would like to convert. Click Convert after selecting the camera(s).

Converting Clip Player to AVI Window Figure D-3



When the following dialog box appears, select the video compression codec and then click **OK** to start converting. The list of compression codecs is supplied from the PC with RASplus installed.

Figure D-4 Video Compression Window



A message AVI Conversion complete displays when conversion to an AVI file is complete.

Figure D-5 AVI Conversion Complete Window



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Document 900.0857 Rev 1.01 12/06

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